

# Exchange Platinum DAV M12 Plan

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# Summary

- Perf, PERF, **PERF!**
- ACLs
- File System Filter
- Mailbox lookup
- File Handle Cache
- Proxy Redirects
- SQL Query Handler
- Front End / Back End
- Paged table results
- Content Negotiation
- Schema
- Replication
- Notification
- MIME Documents

# Timeline

(end of week)

- 5/22 Schema completion, removal of thread pool
- 5/29 SQL to MAPI conversion, MS-SEARCH
- 6/5 Chunked XML
- 6/12 Session pooling, mailbox lookup, Table caching, persistent search
- 6/19 Notifications (UDP), Row range (Search)
- 6/26 ASP execution through IFS, modify ACLs
- 7/3 File Handle Cache, Front End, Content Negotiation, MIME structured Docs
- 7/10 Doc File property promotion

# Not covering

- Browser Integration (Hotmail)
- Additional PKM work
  - Document promotion
- Departmental Server
- M3 Deliverables

# M3 Deliverables

- Finish Search
- Finish Replication
- IMail XML Handler
- Front End / Back End work
- Schema Discovery (schema rowset)
- Locks
- M12 Slippage
- WEC

# Performance!

- Need to start addressing performance issues right away as IFS, cache comes online.
- Cache session information
  - Avoid having to re-authenticate with each request.
- GET/PUT path analysis
  - Native content special casing

# File System Filter

- ASP Execution (6/26)
- Implemented as IFS Filter
  - MikePurt already working on it.
- Should include the oplocks stuff.
- User mode reflection for path resolution
- IFS Integration

# File Handle Cache

## (7/3)

- Unified file handle cache that is shared between all the platinum protocols.
- Cache more meta data
  - Especially data associated with generating the responses.



# Search

- Basic search capabilities (5/29)
- Based on SQL
- Row Range / paged (6/19)
  - Caching queries
- Persistent searches (6/12)
- Tracking standards comes in M3

# Schema

- Mapping standard & custom property names (5/22)
- Generating XML
- Support RFC822, iCal, vCard, general MAPI properties

# Notification

- SUBSCRIBE & UNSUBSCRIBE methods
- UDP callbacks (6/19)
  - Maybe mail & HTTP too
- POLL method.
- In MM2 subscribe to changes on message or folder.
- Based on JoshCo's notification draft

# ACLs

- Getting & setting ACLs via DAV method (6/26)
- Serialize NT ACL into XML or proprietary blob.

# Mailbox Lookup

(6/12)

- Parse URL into path to actual mailbox in the store.
- Can involve a DS query.
- Integrate with existing DS query technology.
  - Caching.

## 305 Proxy Redirects

- Redirect for public folders where the content is on another server.
- Redirect when the server doesn't have the database for a particular account.

# Front End / Back End (7/3)

- Scalability
- Fit into proxy server model.
- Handle proxy redirects and mailbox lookup.
- Proxy Caching
  - Take advantage of notifications for FE cache.

# Content Negotiation

## (7/3)

- Native IFS support for message/rfc822.
- Support for HTML messages.
- Based on Accept headers, URL namespaces, etc.



# Replication

- Store doesn't think anyone can work on local replication in MM12.
- Need to begin protocol work in MM12, but will continue through MM13.
- Necessary to enable start of client development.

# MIME Structured Document Handling

(7/3)

- How we traverse a MIME document.
- Property expresses the MIME structure.
- Contains URLs to each body part.